

INFORMATION RECORDING MEDIUM, DEFECT CONTROL METHOD AND ITS DEVICE

Publication number: JP2000195181
Publication date: 2000-04-10
Inventor: SASAKI SHINJI; ITOU MOTOYUKI; UEDA HIROSHI; FUKUSHIMA YOSHIHISA
Applicant: MATSUSHITA ELECTRIC IND CO LTD
Classification:
- international: G06F3/06; G11B7/004; G11B7/007; G11B20/10; G11B20/12; G11B20/18; G06F3/06; G11B7/00; G11B7/007; G11B20/10; G11B20/12; G11B20/18; (IPC1-7): G11B20/12; G06F3/06; G11B7/004; G11B7/007; G11B20/10; G11B20/18
- european:
Application number: JP19990352465 19991210
Priority number(s): JP19990352465 19991210; JP19980300803 19981022

Report a data error here

Abstract of JP2000195181

PROBLEM TO BE SOLVED: To reduce access delay due to a defective sector, even if the defective sector is detected in the file management area, which is arranged near a logical sector number (LSN):0, by providing a disk information area, user area and a spare area, and arranging the spare area on the inner peripheral side from the user area.
SOLUTION: The area of an optical disk contains a disk information area and a data recording area, while a data storage area 5 contains a user area 6 and a spare area 7. The spare area 7 is arranged immediately before the user area 6 on the inner peripheral side of the optical disk. In the case where a defective sector is detected in the file management area 10, the defective sector is substituted with an alternate sector of the spare area 7. Since a distance is minute between the defective sector and the alternate sector, an access delay due to the defective sector is little. Access frequency to the file management area 10 is high; hence, the recording/reproducing processing time can be shortened.

